Instructional Materials Analysis and Selection

Phase 3: Assessing Content Alignment to the Common Core State Standards for Mathematics

Integrated Pathway for High School: Mathematics II



Phase 3:

Assessing Content Alignment to the Common Core State Standards for Mathematics

A project of

The Indiana Education Roundtable, The Indiana Department of Education, and

The Charles A. Dana Center at The University of Texas at Austin

2010-2011

Instructional Materials Analysis and Selection Assessing Content Alignment to the Common Core State Standards for Mathematics

This tool provides educators with a structured way to make informed decisions when selecting mathematics instructional materials. In particular, it can help you become more knowledgeable about the Common Core State Standards for Mathematics so you can select instructional materials aligned with these standards.

This resource can also be used with the Dana Center's larger 4-phase *Instructional Materials Analysis and Selection* toolset: Phase 1: Studying the Standards, Phase 2: Narrowing the Field of Instructional Materials, Phase 3: Assessing Subject-Area Content Alignment, and Phase 4: Assessing Vertical Alignment of Instructional Materials. The particular resource you hold is a phase 3 tool that has been customized for assessing the alignment of instructional materials with the Common Core State Standards for Mathematics. Note that in 2009, the Dana Center developed a similar tool for Indiana educators to use in analyzing the alignment of instructional materials to Indiana's Academic Standards for Mathematics.

Copyright 2011, 2010, the Charles A. Dana Center at The University of Texas at Austin

Unless otherwise indicated, the materials found in this resource are the copyrighted property of the Charles A. Dana Center at The University of Texas at Austin (the University). No part of this resource shall be reproduced, stored in a retrieval system, or transmitted by any means—electronically, mechanically, or via photocopying, recording, or otherwise, including via methods yet to be invented—without express written permission from the University, except under the following conditions. The following excludes materials not exclusively owned by the Charles A. Dana Center at the University of Texas at Austin.

- 1) The Indiana Department of Education, as well as Indiana school districts, can, through June 30, 2011, copy and disseminate this resource to schools and districts within the state of Indiana, without obtaining further permission from the University, so long as the original copyright notice is retained.
- 2) Other organizations or individuals must obtain prior written permission from the University for the use of these materials, the terms of which may be set forth in a copyright license agreement, and which may include the payment of a licensing fee, or royalties, or both.

We use all funds generated through use of our materials to further our nonprofit educational mission. Please send permission requests or questions to us here:

Charles A. Dana Center Fax: 512-232-1855 The University of Texas at Austin 1616 Guadalupe Street, Suite 3.206 Austin, TX 78701-1222

dana-txshop@utlists.utexas.edu

www.utdanacenter.org

The Dana Center and The University, as well as the authors and editors, assume no liability for any loss or damage resulting from the use of this resource. Any opinions, findings, conclusions, or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of The University of Texas at Austin. We have made extensive efforts to ensure the accuracy of the information in this resource, to provide proper acknowledgement of original sources, and to otherwise comply with copyright law. If you find an error or you believe we have failed to provide proper acknowledgment, please contact us at dana-txshop@utlists.utexas.edu.

The copyright of the Common Core State Standards for Mathematics is held by the National Governors Association Center for Best Practices and the Council of Chief State School Officers. The use of the CCSS for Mathematics in this Instructional Materials Analysis tool is done under the CCSS Terms of Use, available at www.corestandards.org/terms-of-use. For more detail, see About the development of this resource.

Per the Terms of Use, we include this notice, which applies to the Common Core State Standards in this document: © Copyright 2010. National Governors Association Center for Best Practices and Council of Chief State School Officers. All rights reserved.

About the development of this resource

This tool, *Instructional Materials Analysis and Selection: Assessing Content Alignment to the Common Core State Standards for Mathematics*, draws on the Dana Center's nearly 20 years of experience in strengthening education and has been used extensively in Texas and, increasingly, other states, to help local school districts and schools select instructional materials aligned with their standards. Development and production of the Instructional Materials Analysis toolset was supported by the Charles A. Dana Center.

This resource consists of a set of 15 individual grade-level / course documents that span kindergarten through the third year of high school mathematics. There is a document for each grade from kindergarten through 8, and six documents for high school mathematics (one each for the three courses in the traditional high school pathway Algebra I, Geometry, Algebra II; and one each for the three courses in the integrated high school pathway Mathematics I, Mathematics II, and Mathematics III).* At the request of various states and other entities, the Dana Center has populated this *Instructional Materials Analysis and Selection* tool with standards from the *Common Core State Standards for Mathematics* for use by local districts in selecting instructional materials aligned with these standards.

Note that the copyright of the Common Core State Standards for Mathematics is held by the National Governors Association Center for Best Practices and the Council of Chief State School Officers (collectively, NGA Center/CCSSO). This use of the CCSS for Mathematics is done under the CCSS Terms of Use, available at www.corestandards.org/terms-of-use. Specifically, this work is done under the Terms of Use "non-exclusive, royalty-free license to copy, publish, distribute, and display the Common Core State Standards for non-commercial purposes that support the Common Core State Standards Initiative." For a complete copy of the Common Core State Standards for Mathematics as well as the CCSS for Mathematics, Appendix A: Designing high school mathematics courses based on the Common Core State Standards, go to www.corestandards.org/the-standards.

October 2010 release.

We welcome your comments and suggestions for improvements—please send to dana-txshop@utlists.utexas.edu or the address in the copyright section above.

About the Charles A. Dana Center at The University of Texas at Austin

The Dana Center works to raise student achievement in K–16 mathematics and science, especially for historically underserved populations. We do so by providing direct service to school districts and institutions of higher education; to local, state, and national education leaders; and to agencies, nonprofits, and professional organizations concerned with strengthening American education.

The Center was founded in 1991 at The University of Texas at Austin. We carry out our work by supporting high standards and building system capacity; collaborating with key state and national organizations to address emerging issues; creating and delivering professional supports for educators and education leaders; and writing and publishing education resources, including student supports. Our staff of more than 60 has worked with dozens of school systems in nearly 20 states and with 90 percent of Texas's more than 1,000 school districts. We are committed to ensuring that the accident of where a child attends school does not limit the academic opportunities he or she can pursue.

For more information about our programs and resources, see our homepage at **www.utdanacenter.org**. To access our resources (many of them free), see our products index at **www.utdanacenter.org/products**. And to learn more about our professional development—and sign up online—go to **www.utdanacenter.org/pd**.

^{*} For the high school course sequences, we relied on the Common Core State Standards Mathematics Appendix A: Designing High School Mathematics Courses Based on the Common Core State Standards, developed for the CCSS initiative by Achieve, Inc., which convened and managed the Achieve Pathways Group.

Acknowledgments

Unless otherwise noted, all staff listed here are affiliated with the Dana Center.

Project director

Laurie Garland, director of program and product development Sam Zigrossi, senior advisor

Developers and facilitators

Patti Bridwell, senior program coordinator for leadership Laurie Garland, director of program and product development Tom McVey, professional development team lead Sam Zigrossi, senior advisor

Our thanks

We gratefully acknowledge the more than 100 school districts and thousands of educators who have informed the development of these resources.

Editorial and production staff

Cara Hopkins, proofreader
Rachel Jenkins, consulting editor
Tom McVey, professional development team lead
and print production manager
Phil Swann, senior designer

Table of contents

Introduction	1
Scoring Rubric and Documentation Forms	3
Documenting Alignment to the CCSS for Mathematics: Standards for Mathematical Practice	6
Documenting Alignment to the CCSS for Mathematics: Standards for Mathematical Content	.14

Introduction

Phase 1: Studying the Standards

Phase 2: Narrowing the Field of Instructional Materials

Phase 3: Assessing Mathematical Content Alignment

The purpose of Phase 3: Assessing Mathematical Content Alignment is to determine the degree to which the materials are aligned to the standards (content and processes). In Phase 3, participants conduct an in-depth review of the 2-3 instructional materials selected in Phase 2. The Phase 3 process requires selection committee members to use set criteria in order to determine a rating for each sample, to cite examples to justify their score for each sample, and to document standards that are missing or not well-developed in the instructional materials examined.

Implementation

As a whole group, selection committee members should practice applying the Phase 3 rubric. The purpose of the whole group practice is to promote inter-rater reliability and calibration.

In Phase 3 it is not important to analyze every page, section, or chapter of a resource. It is important to identify an area, topic, or big idea for the deep content analysis of Phase 3 (e.g. development of equivalent fractions, addition of whole numbers, development of proportionality...). The identified area, topic, or big idea will be used for all the instructional materials considered in Phase 3. The area, topic, or big idea can be identified through the use of student achievement data, curriculum priorities/challenges, or ideas that typically make up a greater portion of instruction in particular grade levels/courses. In most cases, Phase 3 will identify the one resource that is best aligned.

Step-by-Step Instructions

- 1. Use your current adoption to practice using the Phase 3 rubric. Select one big idea to focus your analysis (see note above for selecting the area, topic, or big idea).
- 2. Independently, committee members use their current resource, the identified big idea (and associated pages in that resource), and the Phase 3 rubric to score and document the extent to which the material (content and processes) aligns to the standards.
- 3. In small groups, committee members share their scoring and justifications. Small groups come to consensus on how the current resource would score on this big idea.
- 4. Each small group shares with the large group their score. Repeat the consensus building to generate a large group score on this big idea.
- 5. Clarify any misunderstandings about how to apply the rubric before committee members begin to use Phase 3 rubric on the selected materials.

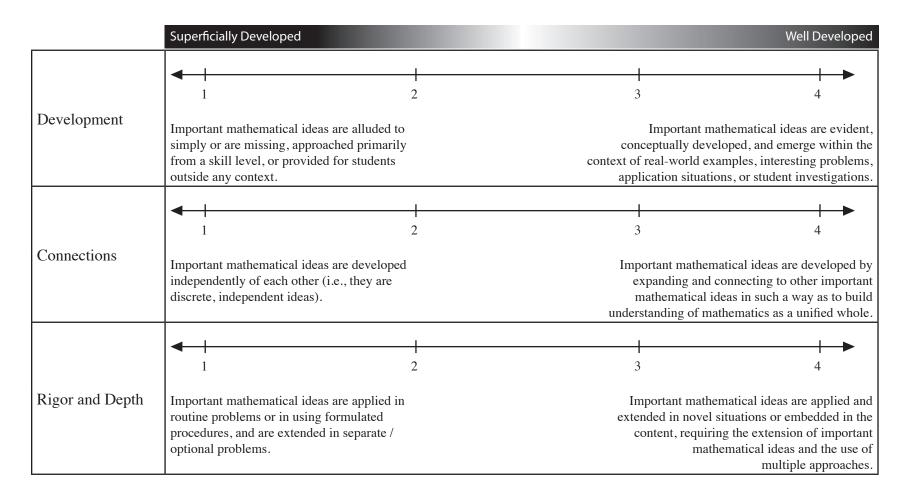
- 6. Based on the size of the selection committee, determine the number of areas, topics, or big ideas to be examined for each grade/course. If the group size is large, more areas, topics, big ideas can be examined within each grade level/course.
- 7. Make sure committee members have multiple copies of the Phase 3 rubric.
- 8. Committee members apply the Phase 3 rubric for each of the materials.
- 9. Establish a time line for groups to complete and submit Phase 3 documentation.
- 10. Establish a data collection and analysis process to attain a rating for each resource.

Materials and Supplies

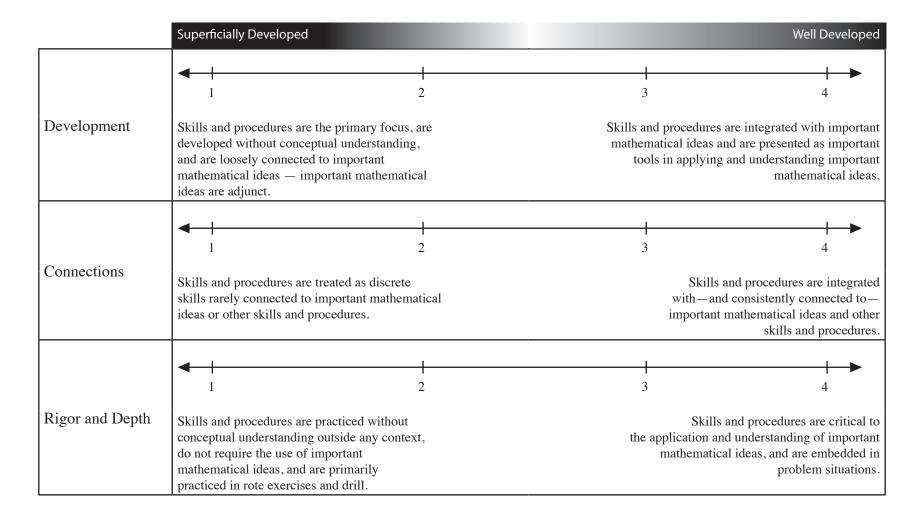
- Phase 3: Assessing Mathematical Content Alignment black line master multiple copies per person
- Currently used instructional resource
- The 2 to 4 instructional materials selected in Phase 2

Phase 4: Assessing Vertical Alignment of Instructional Materials

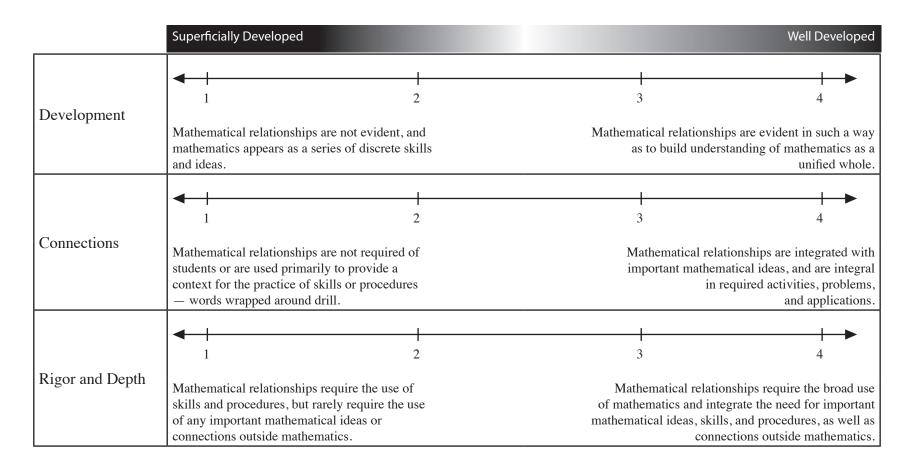
Important Mathematical Ideas: Understanding the scoring



Skills and Procedures: Understanding the scoring



Mathematical Relationships: Understanding the scoring



Reviewed By:	
Title of Instructional Materials:	

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

3

2

Reviewed By:	
Title of Instructional Materials:	

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Overall Rating

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

1 2 3 4

Reviewed By:	
Title of Instructional Materials:	

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



The Charles A. Dana Center

Reviewed By:	
Title of Instructional Materials:	

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Reviewed By:	
Title of Instructional Materials:	

The Real Number System (N-RN)

from the materia	w the domain, clu als.	uster, and star	ndard are
al Ideas 4	1 2	3	4
1	2	3	4
nships 4	2	3	4
ation / Evidence			
nain, cluster, and structional mate	I standard that ar rials (if any):	e missing or r	not well
-	 	1 2	1 2 3

Reviewed By:	
Title of Instructional Materials:	

The Real Number System (N-RN)

Extend the properties of exponents to rational exponents.	Summary and documentati met. Cite examples from the			ster, and stan	dard are
N-RN.2	Important Mathematical Ideas	+	I	ı	
Rewrite expressions involving radicals and rational exponents using the properties of exponents.		1	2	3	4
	Skills and Procedures		+		→
		1	2	3	4
	Mathematical Relationships	+	2	3	4
	Summary / Justification / E	vidence		-	
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

The Real Number System (N-RN)

Use properties of rational and irrational numbers.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
N-RN.3 Explain why the sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational.	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

Reviewed By:	
Title of Instructional Materials:	

The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
N-CN.1	Important Mathematical Ideas				
Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real.	Important Mathematical Ideas	1	2	3	4
Note: <i>i</i> ² as highest power of <i>i</i> .					
	Skills and Procedures	+			→
		1	2	3	4
	Mathematical Relationships	4			→
	,	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			missing or n	ot well
	Overall Rating	 	+		
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
N-CN.2	Important Mathematical Ideas				
Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.	Important Mathematical Ideas	1	2	3	4
Note: <i>i</i> ² as highest power of <i>i</i> .					
	Skills and Procedures	+			→
		1	2	3	4
	Mathematical Relationships	 		+	→
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludedeveloped in the instruction			missing or no	ot well
	Overall Rating		+	+	→
		1	2	3	4

Reviewed By:	
-	

Title of Instructional Materials:

MATHEMATICS II — NUMBER AND QUANTITY (N) The Complex Number System (N-CN)

Use complex numbers in polynomial identities and equations.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
N-CN.7 Solve quadratic equations with real coefficients that have complex solutions. Note: Quadratics with real coefficients.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s) section(s) and/or page(s) reviewed	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clude developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

The Complex Number System (N-CN)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standarmet. Cite examples from the materials.		dard are		
N-CN.8					
(+) Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x - 2i)$.	Important Mathematical Ideas	1	2	3	4
Note: Quadratics with real coefficients.					
	Skills and Procedures	+	+		→
		1	2	3	4
	Mathematical Relationships	4			
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			e missing or n	ot well
	Overall Rating	 	2	3	4

Reviewed By:	
Title of Instructional Materials:	

The Complex Number System (N-CN)

Use complex numbers in polynomial identities and equations.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
N-CN.9	Important Mathematical Ideas				
(+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Important Mathematical Ideas	1	2	3	4
Note: Quadratics with real coefficients.					
	Skills and Procedures				→
		1	2	3	4
	Mathematical Relationships	+	-	+	
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or no	ot well
	Overall Rating	 	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation met. Cite examples from the			ster, and stand	lard are
 A-SSE.1a 1. Interpret expressions that represent a quantity in terms of its context.* a. Interpret parts of an expression, such as terms, factors, and 	Important Mathematical Ideas	1	1 2	3	4
coefficients. Note: Quadratic and exponential.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	1 2	1 3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			missing or no	 ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
A-SSE.1b 1. Interpret expressions that represent a quantity in terms of its context.*	Important Mathematical Ideas	+	1 2	 3	4
 b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret P(1+r)ⁿ as the product of P and a factor not depending on P. Note: Quadratic and exponential. 	Skills and Procedures	1	2	3	4
	Online and 1 recodules	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	ridence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			e missing or n	ot well
	Overall Rating	1	2	 3	4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
A-SSE.2	Important Mathematical Ideas				
Use the structure of an expression to identify ways to rewrite it. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2)(x^2 + y^2)$.	Important Mathematical Ideas	1	2	3	4
Note: Quadratic and exponential.	Skills and Procedures				
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	4.1		1	→
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or n	ot well
	Overall Rating	 	2	3	→ 4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Write expressions in equivalent forms to solve problems.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
 A-SSE.3a 3. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.* 	Important Mathematical Ideas	1	2	3	4
a. Factor a quadratic expression to reveal the zeros of the function it defines. Note: Quadratic and exponential.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Write expressions in equivalent forms to solve problems.	Summary and documentation met. Cite examples from the			ster, and stand	ard are
A-SSE.3b	Important Mathematical Ideas				
3. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.*	Important Mathematical Ideas	1	2	3	4
 Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines. 	Skills and Procedures				
Note: Quadratic and exponential.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	 	1 2	 3	→ 4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Write expressions in equivalent forms to solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
A-SSE.3c	Important Mathematical Ideas	4	Į.		
3. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.*		1	2	3	4
c. Use the properties of exponents to transform expressions for exponential functions. For example the expression 1.15 ^t can be rewritten as $(1.15^{1/12})^{12t} \approx 1.012^{12t}$ to reveal the approximate equivalent monthly interest rate if the annual rate is 15%.	Skills and Procedures		 2	 3	→
Note: Quadratic and exponential.		1	2	5	4
	Mathematical Relationships	 	2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
	Portions of the domain, cluded developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	 3	4

Reviewed By:	
Title of Instructional Materials:	

Arithmetic with Polynomials and Rational Expressions (A-APR)

Perform arithmetic operations on polynomials. A-APR.1 Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
	Important Mathematical Ideas	1	2	3	4
ote: Polynomials that simplify to quadratics.	Skills and Procedures	+		+	
		1	2	3	4
	Mathematical Relationships	 			→
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
A-CED.1					
Create equations and inequalities in one variable and use them to solve	Important Mathematical Ideas	\leftarrow	- 		→
problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.*		1	2	3	4
	Skills and Procedures	4	1		
		1	2	2	4
		1	2	3	4
	Mathematical Relationships	+			
		1	2	3	4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
A-CED.2	Large and and Markle and Attack	_	_		
Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.*	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	 	2	 3	4
	Mathematical Relationships	1	1 2		4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not w developed in the instructional materials (if any):				
	Overall Rating	1	 		4

Reviewed By:	
Title of Instructional Materials:	

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentati met. Cite examples from the			ster, and stan	dard are
A-CED.4	Important Mathematical Ideas				
Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law $V = IR$ to highlight resistance $R.*$	Important Mathematical Ideas	1	2	3	4
Note: Include formulas involving quadratic terms.	Skills and Procedures	•	+		
		1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or n	ot well
	Overall Rating	 	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Reasoning with Equations and Inequalities (A-REI)

Solve equations and inequalities in one variable.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				ndard are
A-REI.4a4. Solve quadratic equations in one variable.	Important Mathematical Ideas	++	2	3	
a. Use the method of completing the square to transform any quadratic equation in x into an equation of the form $(x - p)^2 = q$ that has the same solutions. Derive the quadratic formula from this form. Note: Quadratics with real coefficients.	Skills and Procedures	1	1 2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	ridenc	ce		
	Portions of the domain, clus developed in the instruction			re missing or	not well
	Overall Rating	1	1 2	1 3	4

Reviewed By:	
Title of Instructional Materials:	

Reasoning with Equations and Inequalities (A-REI)

Solve equations and inequalities in one variable.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				
A-REI.4b4. Solve quadratic equations in one variable.	Important Mathematical Ideas	1	1 2	3	4
b. Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions and write them as $a \pm bi$ for real numbers a and b .	Skills and Procedures	1	1 2	3	
Note: Quadratics with real coefficients.					
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Reasoning with Equations and Inequalities (A-REI)

Solve systems of equations.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
A-REI.7 Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically. For example, find the points of intersection between the line v. = 2x and the circle x² + x² = 3	Important Mathematical Ideas	1	2	3	4
points of intersection between the line $y = -3x$ and the circle $x^2 + y^2 = 3$. Note: Linear-quadratic systems.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	1 2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			missing or n	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard ar met. Cite examples from the materials.				lard are
F-IF.4	Important Mathematical Ideas	4.1	1		1.5
For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing,	Important wathernatical rucas	1	2	3	4
decreasing, positive, or negative; relative maximums and minimums;		+			
vmmetries; end behavior; and periodicity.* ote: Quadratic.		1	2	3	4
	Mathematical Relationships	+		-	
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clude developed in the instruction			missing or no	ot well
	Overall Rating	 	-	+	→
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
F-IF.5 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function h(n) gives	Important Mathematical Ideas	1	1 2	3	4
the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.* Note: Quadratic.	Skills and Procedures	4-1			
		1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
-	

Title of Instructional Materials:

MATHEMATICS II — FUNCTIONS (F)

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				ard are
F-IF.6	los os esta est. Mantina con etia al I de a e	_		_	_
Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*	Important Mathematical Ideas	1	2	3	4
Note: Quadratic.	Skills and Procedures	4	1		
		1	2	3	4
	Mathematical Relationships	+			
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				dard are
F-IF.7a	Important Mathematical Ideas				
 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.* 	Important Mathematical Ideas	1	2	3	4
 Graph linear and quadratic functions and show intercepts, maxima, and minima. 	Skills and Procedures	+			→
Note: Linear, exponential, quadratic, absolute value, step, piecewise-defined.		1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ex	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			
 F-IF.7b 7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.* 	Important Mathematical Ideas 1 2 3 4			
b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	Skills and Procedures			
Note: Linear, exponential, quadratic, absolute value, step, piecewise-defined. Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships 1 2 3 4 Mathematical Relationships 1 2 3 4 Summary / Justification / Evidence			
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 1 2 3 4			

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				dard are
F-IF.8a8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	Important Mathematical Ideas	1	2	3	4
Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	Skills and Procedures	 			→
Note: Linear, exponential, quadratic, absolute value, step, piecewise-defined.		1	2	3	4
	Mathematical Relationships	1	1 2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			missing or n	ot well
	Overall Rating	 	1 2	 3	4

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				ard are
F-IF.8b8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	Important Mathematical Ideas	1	1 2	1 3	4
 b. Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as y = (1.02)^t, y = (0.97)^t, y = (1.01)^{12t}, y = (1.2)^{t/10}, and classify them as representing exponential growth or decay. Note: Linear, exponential, quadratic, absolute value, step, piecewise-defined. 	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	1 2	 3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clude developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	1 3	4

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Analyze functions using different representations	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				ard are
F-IF.9	Important Mathematical Ideas	4		1	
Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum.		1	2	3	4
Note: Linear, exponential, quadratic, absolute value, step, piecewise-defined.	Skills and Procedures	+	+	+	
		1	2	3	4
	Mathematical Relationships	+	+		→
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			missing or no	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Building Functions (F-BF)

Build a function that models a relationship between two quantities.	Summary and documentation of how the domain, cluster, and standard at met. Cite examples from the materials.				dard are
F-BF.1a1. Write a function that describes a relationship between two quantities.*	Important Mathematical Ideas	1	2	3	4
Determine an explicit expression, a recursive process, or steps for calculation from a context.					
Note: Quadratic and exponential.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Building Functions (F-BF)

Build a function that models a relationship between two quantities.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				dard are
F-BF.1b	Important Mathematical Ideas	+			
Write a function that describes a relationship between two quantities.*		1	2	3	4
b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	Skills and Procedures	-			
Note: Quadratic and exponential.		1	2	3	4
	Mathematical Relationships	1	1 2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentation met. Cite examples from the		ne domain, clus	ster, and stand	dard are
F-BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of	Important Mathematical Ideas	1	2	3	4
regiven the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. <i>Include recognizing even and odd functions from their graphs and algebraic expressions for them.</i> Note: Quadratic, absolute value.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			missing or no	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentation of how the domain, cluster, and standard ar met. Cite examples from the materials.				ard are
F-BF.4a	Important Mathematical Ideas	+	-		
 4. Find inverse functions. a. Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, f(x) = 2 x³ or f(x) = (x+1)/(x-1) for x ≠ 1. Note: Quadratic, absolute value. 		1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
-	

Title of Instructional Materials:

MATHEMATICS II — FUNCTIONS (F)

Linear, Quadratic, and Exponential Models (F-LE)

Construct and compare linear, quadratic, and exponential models and solve problems.	Summary and documentation of how the domain, cluster, and standard at met. Cite examples from the materials.				dard are
F-LE.3	Important Mathematical Ideas				
Observe using graphs and tables that a quantity increasing exponentially	Important Mathematical Ideas	1	2	3	4
eventually exceeds a quantity increasing linearly, quadratically, or (more generally) as a polynomial function.*		1	2	3	1
Note: Include quadratic.	Skills and Procedures	4.1	1		1.5
		•	İ	i	
		1	2	3	4
	Mathematical Relationships	+	+		
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or no	ot well
	Overall Rating				
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Trigonometric Functions (F-TF)

Prove and apply trigonometric identities.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
F-TF.8	Important Mathematical Ideas	4.1	1		
Prove the Pythagorean identity $\sin^2(\theta) + \cos^2(\theta) = 1$ and use it to find $\sin(\theta)$, $\cos(\theta)$, or $\tan(\theta)$ given $\sin(\theta)$, $\cos(\theta)$, or $\tan(\theta)$ and the quadrant of the angle.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures				
		1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	 	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Congruence (G-CO)

Prove geometric theorems.	Summary and documentati met. Cite examples from th			ster, and stand	lard are
G-CO.9 Prove theorems about lines and angles. Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a	Important Mathematical Ideas	1	2	3	4
angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints. Note: Focus on validity of underlying reasoning while using variety of ways of writing proofs.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence			
	Portions of the domain, clu developed in the instructio			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Congruence (G-CO)

Prove geometric theorems.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
G-CO.10 Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to 180°; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel	Important Mathematical Ideas	1	2	3	4
to the third side and half the length; the medians of a triangle meet at a point. Note: Focus on validity of underlying reasoning while using variety of ways of writing proofs.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	ridence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Congruence (G-CO)

Prove geometric theorems.	Summary and documentati met. Cite examples from th			ster, and stand	dard are
G-CO.11 Prove theorems about parallelograms. Theorems include: opposite sides are congruent, opposite angles are congruent, the diagonals of a parallelogram bisect each other, and conversely, rectangles are parallelograms with	Important Mathematical Ideas	1	2	3	4
congruent diagonals. Note: Focus on validity of underlying reasoning while using variety of ways of writing proofs.	Skills and Procedures	 	1 2		→
	Mathematical Relationships	1	1 2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence			
	Portions of the domain, clu developed in the instructio			missing or no	ot well
	Overall Rating	← 1	1 2		4

Reviewed By:	
Title of Instructional Materials:	

Similarity, Right Triangles, and Trigonometry (G-SRT)

Understand similarity in terms of similarity transformations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
G-SRT.1a	Important Mathematical Ideas	4.1			
 Verify experimentally the properties of dilations given by a center and a scale factor: 		1	2	3	4
 A dilation takes a line not passing through the center of the dilation to a parallel line, and leaves a line passing through the center unchanged. 	Skills and Procedures	 	-	-	→
		1	2	3	4
	Mathematical Relationships	 			
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Similarity, Right Triangles, and Trigonometry (G-SRT)

Understand similarity in terms of similarity transformations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
G-SRT.1b1. Verify experimentally the properties of dilations given by a center and a scale factor:	Important Mathematical Ideas	1	2	3	4
 b. The dilation of a line segment is longer or shorter in the ratio given by the scale factor. 	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	1	1 2	1 3	4

Reviewed By:	
Title of Instructional Materials:	

Similarity, Right Triangles, and Trigonometry (G-SRT)

Understand similarity in terms of similarity transformations.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				dard are
G-SRT.2					
Given two figures, use the definition of similarity in terms of similarity	Important Mathematical Ideas	←	+	-	
transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding		1	2	3	4
pairs of sides.	Skills and Procedures	+			→
		1	2	3	4
	Mathematical Relationships	+	+	+	
		1	2	3	4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating				
	- Colon Rading	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Similarity, Right Triangles, and Trigonometry (G-SRT)

Understand similarity in terms of similarity transformations.	Summary and documentation met. Cite examples from the		ne domain, clus	ster, and stand	dard are
G-SRT.3	Increase Andrews Markle are attack to a list and	_			
Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	 2	 3	→ 4
	Mathematical Relationships	1	1 2	1 3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clude developed in the instruction			missing or no	ot well
	Overall Rating				
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Similarity, Right Triangles, and Trigonometry (G-SRT)

Prove theorems involving similarity.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
G-SRT.4	large out out Mathematical Ideas				
Prove theorems about triangles. Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.	Important Mathematical Ideas	1	2	3	4
Note: Focus on validity of underlying reasoning while using variety of formats.	Skills and Procedures	4			
		1	2	3	4
	Mathematical Relationships	+ 			→
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	 	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Similarity, Right Triangles, and Trigonometry (G-SRT)

Prove theorems involving similarity.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
G-SRT.5	I was a stant Mathematical Ideas				
Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Important Mathematical Ideas	1	2	3	4
Note: Focus on validity of underlying reasoning while using variety of formats.					
	Skills and Procedures				→
		1	2	3	4
	Mathematical Relationships		+		
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludedeveloped in the instruction			missing or no	ot well
	Overall Rating	 	1 2	 3	4

Reviewed By:	
-	

laterials:

Similarity, Right Triangles, and Trigonometry (G-SRT)

Define trigonometric ratios and solve problems involving right triangles.	Summary and documentation met. Cite examples from the			ster, and stan	ard are
G-SRT.6					
Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.	Important Mathematical Ideas	1	2	3	4
acute angles.					
	Skills and Procedures	+		1	
		1	2	3	4
	Mathematical Relationships	+	+		→
		1	2	3	4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	

Title of Instructional Materials:

MATHEMATICS II — GEOMETRY (G)

Similarity, Right Triangles, and Trigonometry (G-SRT)

Define trigonometric ratios and solve problems involving right triangles.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
G-SRT.7					
Explain and use the relationship between the sine and cosine of complementary angles.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	 		+	<u></u>
		1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	1	1 2	 3	4

Reviewed By:	
•	

Title of Instructional Materials:	
-----------------------------------	--

Similarity, Right Triangles, and Trigonometry (G-SRT)

Define trigonometric ratios and solve problems involving right triangles.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				
G-SRT.8					
Use trigonometric ratios and the Pythagorean Theorem to solve right	Important Mathematical Ideas	+	+	- 	→
triangles in applied problems.*		1	2	3	4
	Skills and Procedures	4			
		1	2	3	4
	Mathematical Relationships	4.1	ı	ı	
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or no	ot well
	Overall Rating	 	+	+	
	o volum vaamig	1	2	3	4

Reviewed By:	

Title of Instructional Materials:

MATHEMATICS II — GEOMETRY (G)

Circles (G-C)

Understand and apply theorems about circles.	Summary and documentat met. Cite examples from the			ster, and stan	dard are
G-C.1 Prove that all circles are similar.	Important Mathematical Ideas	 		-	—
Prove that all circles are similar.		1	2	3	4
	Skills and Procedures	 			→
		1	2	3	4
	Mathematical Relationships		+		→
		1	2	3	4
	Summary / Justification / E	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Circles (G-C)

Understand and apply theorems about circles.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
G-C.2					
	Important Mathematical Ideas	+	+		
Identify and describe relationships among inscribed angles, radii, and chords. <i>Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects</i>		1	2	3	4
the circle.	Skills and Procedures	4			
		1	2	3	4
		1	2	J	1
	Mathematical Relationships	•	-		
		1	2	3	4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating				
	Overall Nating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Circles (G-C)

Understand and apply theorems about circles.	Summary and documentation of how the domain, cluster, and standard at met. Cite examples from the materials.					
G-C.3						
Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.	Important Mathematical Ideas	1	2	3	4	
	Skills and Procedures				→	
		1	2	3	4	
	Mathematical Relationships	 	2	3	4	
	Summary / Justification / Ev	vidence	-		-	
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
	Portions of the domain, clus developed in the instruction			missing or no	ot well	
	Overall Rating					
		1	2	3	4	

Reviewed By:	

Title of Instructional Materials:

MATHEMATICS II — GEOMETRY (G)

Circles (G-C)

Understand and apply theorems about circles.	Summary and documentation of how the domain, cluster, and standard ar met. Cite examples from the materials.				
G-C.4(+) Construct a tangent line from a point outside a given circle to the circle.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2		4

Reviewed By:	
Title of Instructional Materials:	

Circles (G-C)

Find arc lengths and areas of sectors of circles.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
G-C.5 Derive using similarity the fact that the length of the arc intercepted by an angle is proportional to the radius, and define the radian measure of the angle as the constant of proportionality; derive the formula for the area of a sector.	Important Mathematical Ideas	1	2	3	4
Note: Radian introduced only as unit of measure.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	 	1 2	3	4

Reviewed By:	
-	

Title of Instructional Materials:	Title	of Instructional	Materials:		
-----------------------------------	-------	------------------	------------	--	--

Expressing Geometric Properties with Equations (G-GPE)

Translate between the geometric description and the equation for a conic section.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.					
G-GPE.1						
Derive the equation of a circle of given center and radius using the Pythagorean Theorem; complete the square to find the center and radius of	Important Mathematical Ideas	1	2	3	4	
a circle given by an equation.						
	Skills and Procedures			+	→	
		1	2	3	4	
	Mathematical Relationships	+	-		→	
		1	2	3	4	
	Summary / Justification / Evidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):					
	Overall Rating	 	2	3	4	

Reviewed By:	
•	

itle of Instructional Materials:	
----------------------------------	--

Expressing Geometric Properties with Equations (G-GPE)

Translate between the geometric description and the equation for a conic section.	Summary and documentat met. Cite examples from the			ster, and stand	dard are
G-GPE.2 Derive the equation of a parabola given a focus and directrix.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	1 2	3	4
	Summary / Justification / E	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Expressing Geometric Properties with Equations (G-GPE)

Use coordinates to prove simple geometric theorems algebraically.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
G-GPE.4					
Use coordinates to prove simple geometric theorems algebraically. <i>For</i>	Important Mathematical Ideas	\leftarrow	- 	- 	\longrightarrow
example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point $(1, \sqrt{3})$ lies on the circle centered at the origin and containing the point $(0, 2)$.		1	2	3	4
Note: Include simple circle theorems.	Skills and Procedures	+			→
		1	2	3	4
	Mathematical Relationships	. 1			
	Wathernatical Relationships	+	1	 	
		1	2	3	4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	+			
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Geometric Measurement and Dimension (G-GMD)

Explain volume formulas and use them to solve problems.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
G-GMD.1	Important Mathematical Ideas	4.1	1	1	1.
Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone. <i>Use dissection arguments, Cavalieri's principle, and informal limit arguments.</i>	Important manematisar racas	1	2	3	4
	Skills and Procedures		+		→
		1	2	3	4
	Mathematical Relationships			+	→
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or n	ot well
	Overall Rating				

Reviewed By:	
Title of Instructional Materials:	

Geometric Measurement and Dimension (G-GMD)

Explain volume formulas and use them to solve problems.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
G-GMD.3	Lorenza de la del Martin con estima i la la con	_	_	_	_
Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.*	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures		+	+	→
		1	2	3	4
	Mathematical Relationships		2	3	4
	Summary / Justification / Ev	vidence		Ü	
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	 	<u> </u>		
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Understand independence and conditional probability and use them to interpret data.	Summary and documentation of homet. Cite examples from the materi	ow the domain, cluster, and standard are ials.
S-CP.1 Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events ("or," "and," "not").	Important Mathematical Ideas 1	2 3 4
Note: Link to data from simulations or experiments.	Skills and Procedures	2 3 4
	Mathematical Relationships 1	2 3 4
	Summary / Justification / Evidence	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and developed in the instructional mate	d standard that are missing or not well erials (if any):
	Overall Rating 1	1 1 1 1 1 1 2 2 3 4

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Understand independence and conditional probability and use them to interpret data.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				ard are
S-CP.2					
Understand that two events <i>A</i> and <i>B</i> are independent if the probability of <i>A</i> and <i>B</i> occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Important Mathematical Ideas	1	2	3	4
Note: Link to data from simulations or experiments.	Skills and Procedures	4.1	1	1	1.
		1	2	3	4
	Mathematical Relationships		-		
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Important Mathematical Ideas	+			
	• 1		1	
	1	2	3	4
Skills and Procedures	1	2	3	4
Mathematical Relationships	1	1 2	3	4
Summary / Justification / Ev	vidence			
			missing or n	ot well
Overall Rating	 	-		→ 4
_	Mathematical Relationships Summary / Justification / Eventual Portions of the domain, cluded developed in the instruction	Mathematical Relationships 1 Summary / Justification / Evidence Portions of the domain, cluster, and sta developed in the instructional materials	Mathematical Relationships 1 2 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are developed in the instructional materials (if any):	Mathematical Relationships 1 2 3 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are missing or nedeveloped in the instructional materials (if any):

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Understand independence and conditional probability and use them to interpret data.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				domain, cluster, and standard are		
S-CP.4	Important Mathematical Ideas	4.1	ı	ı			
Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities. For example, collect data from a		1	2	3	4		
random sample of students in your school on their favorite subject among	Skills and Procedures				→		
math, science, and English. Estimate the probability that a randomly selected student from your school will favor science given that the student is in tenth grade. Do the same for other subjects and compare the results.	that the student is in tenth are the results.	1	2	3	4		
Note: Link to data from simulations or experiments.	Mathematical Relationships	4	ı	I			
		1	2	3	4		
	Summary / Justification / Ev	vidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.							
	Portions of the domain, clus developed in the instruction			missing or no	ot well		
	Overall Rating	 	2	3	4		

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

nd use them to Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				dard are
Important Mathematical Ideas	4.1	1		1.5
	1	2	3	4
Skills and Procedures	1	2	3	4
Mathematical Relationships	1	2	3	4
Summary / Justification / E	vidence			
			missing or n	ot well
Overall Rating				→
	met. Cite examples from the Important Mathematical Ideas Skills and Procedures Mathematical Relationships Summary / Justification / E Portions of the domain, cludeveloped in the instruction	met. Cite examples from the materials. Important Mathematical Ideas 1 Skills and Procedures 1 Mathematical Relationships 1 Summary / Justification / Evidence Portions of the domain, cluster, and stadeveloped in the instructional material	met. Cite examples from the materials. Important Mathematical Ideas 1 2 Skills and Procedures 1 2 Mathematical Relationships 1 2 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are developed in the instructional materials (if any):	met. Cite examples from the materials. Important Mathematical Ideas 1 2 3 Skills and Procedures 1 2 3 Mathematical Relationships 1 2 3 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are missing or n developed in the instructional materials (if any):

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Use the rules of probability to compute probabilities of compound events in a uniform probability model.	Summary and documentation of how the domain, cluster, and standa met. Cite examples from the materials.					
S-CP.6						
Find the conditional probability of A given B as the fraction of B 's outcomes that also belong to A , and interpret the answer in terms of the model.	Important Mathematical Ideas	1	2	3	4	
	Skills and Procedures	1	 2		4	
	Mathematical Relationships	1	1 2		4	
	Summary / Justification / Ev	vidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clus	ster and sta	andard that are	missing or no	nt well	
	developed in the instruction			micomy or m		
	Overall Rating	1	1 2		4	

Reviewed By:	

Conditional Probability and the Rules of Probability (S-CP)

Use the rules of probability to compute probabilities of compound events in a uniform probability model.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				ard are
S-CP.7					
Apply the Addition Rule, $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$, and interpret the answer in terms of the model.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	 			→
		1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clus developed in the instruction			missing or no	ot well
	Overall Rating	1	1 2	3	→ 4

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				dard are
Important Mathematical Ideas	1	2	3	4
Skills and Procedures	1	2	3	4
Mathematical Relationships	1	1 2	3	→ 4
Summary / Justification / Ev	vidence			
Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				ot well
Overall Rating	 		<u> </u>	→
	met. Cite examples from the Important Mathematical Ideas Skills and Procedures Mathematical Relationships Summary / Justification / Examples from the Important Mathematical Ideas	met. Cite examples from the materials. Important Mathematical Ideas 1 Skills and Procedures 1 Mathematical Relationships 1 Summary / Justification / Evidence Portions of the domain, cluster, and stadeveloped in the instructional material	met. Cite examples from the materials. Important Mathematical Ideas 1 2 Skills and Procedures 1 2 Mathematical Relationships 1 2 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are developed in the instructional materials (if any):	met. Cite examples from the materials. Important Mathematical Ideas 1 2 3 Skills and Procedures 1 2 3 Mathematical Relationships 1 2 3 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are missing or nodeveloped in the instructional materials (if any):

Reviewed By:	
Title of Instructional Materials:	

Conditional Probability and the Rules of Probability (S-CP)

Use the rules of probability to compute probabilities of compound events in a uniform probability model.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
S-CP.9	Important Mathematical Ideas				
(+) Use permutations and combinations to compute probabilities of compound events and solve problems.	Important Mathematical Ideas 1 2 3	4			
	Skills and Procedures	+			
	1 2 3	4			
	Mathematical Relationships 1 2 3	4			
	Summary / Justification / Evidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating	— →			
	1 2 3 4	:			

Reviewed By:			
	·		

Title of Instructional Materials:

MATHEMATICS II — STATISTICS AND PROBABILITY (S)

Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.						
S-MD.6	Important Mathematical Ideas	. 1					
(+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator).	important Mathematical Ideas	1	2	3	4		
Note: Introductory; apply counting rules.							
	Skills and Procedures				→		
		1	2	3	4		
	Mathematical Relationships	+					
		1	2	3	4		
	Summary / Justification / E	vidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.							
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):						
	Overall Rating		 	+	→		
		1	2	3	4		

Reviewed By:	
Title of Instructional Materials:	

Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				dard are
S-MD.7	Large estate Mathematical Idea		_		
(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).	Important Mathematical Ideas	1	2	3	4
Note: Introductory; apply counting rules.					
	Skills and Procedures				→
		1	2	3	4
	Mathematical Relationships	+	+		→
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				ot well
	Overall Rating	 	1 2	3	4